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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/28/2010

William S Frommer Frommer Lawrence & Haug 745 Fifth Avenue New York, NY 10151 EXAMINER

LIEW, ALEX KOK SOON

ART UNIT PAPER NUMBER

ART UNIT 2624 DATE MAILED: 06/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.
10/560,865	12/14/2005	Shojiro Shibata	450100-05110 3686
TITLE OF INVENTION	IMAGE PROCESSING	DEVICE, IMAGE PROCESSING METHOD, INF	ORMATION PROCESSING DEVICE.

INFORMATION PROCESSING METHOD, INFORMATION RECORDING DEVICE, INFORMATION RECORDING METHOD, INFORMATION REPRODUCTION DEVICE, INFORMATION REPRODUCTION METHOD, RECORDING MEDIUM AND PROGRA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/28/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	correspondence includir ed below or directed oth	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	ders and notification  specifying a new of	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corres	spondence address as FEE ADDRESS" for
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William S From Frommer Lawrer 745 Fifth Avenue	nce & Haug e	/2010			I her State addr trans	Cerreby certify that the Postal Service we seed to the Mail smitted to the USP.	tificate is Fec(s ith suf Stop FO (57	of Mailing or Trans  Transmittal is being ficient postage for first ISSUE FEE address  273-2885, on the d	missio depos t class above ate ind	on sited with the United mail in an envelope , or being facsimile licated below.
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APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/560,865	12/14/2005			Shojiro Shibata			- 4	50100-05110		3686
TITLE OF INVENTION INFORMATION PROCEED TO DEVI	ESSING METHOD, I	NFOR?	MATION RECOR	DING DEVICE, IN	FOR	MATION RECOR	RDING			
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE D	DUE PREV. PAID ISSUE FEE TOTAL FEE		TOTAL FEE(S) DUE		DATE DUE	
nonprovisional	NO		\$1510	\$300		\$0		\$1810		09/28/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS						
LIEW, ALEX	KOK SOON		2624	382-232000		•				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp	nge of "Indicated. Use	Correspondence ation form e of a Customer E PRINTED ON T		ip to native or a attor il be or typ he pa	3 registered paten rely, e firm (having as a sgent) and the name meys or agents. If op- printed. ec) set	memb es of up no nam	er a 2		nt has been filed for
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NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req ecords of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	from anyone other the Office.	nan ti	he applicant; a regi	stered a	attorney or agent; or th	e assi	gnee or other party in
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75	90 06/28/2010	EXAMINER			
William S Frommer			LIEW, ALEX KOK SOON		
Frommer Lawrence	e & Haug	ART UNIT	PAPER NUMBER		
745 Fifth Avenue New York, NY 10	151	2624			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 670 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 670 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

## Application No. Applicant(s) 10/560 865 SHIBATA ET AL. Notice of Allowability Examiner Art Unit 2624 ALEX LIEW -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/18/10. The allowed claim(s) is/are 1,3-6,8-10 and 12-16. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) 🛛 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other /Vu Le/

Supervisory Patent Examiner, Art Unit 2624

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#### DETAILED ACTION

[1] The amendment filed on March 18, 2010 is entered and made of record.

[2] Claims 1, 3-6, 8-10 and 12-16 have been examined.

### [3] RESPONSE TO APPLICANT'S ARGUMENTS

I. On page 17 of the reply, the applicant stated: "The coding control unit 13 of Takishima, (see column 5, line 60 -column 6, line 11 and Figure 7) receives the data from the preprocessing unit 11 and decides a picture type, a quantization step size, and a picture block position.
Estimation of a coded parameter only takes place if the input video signal is provided with no coded parameter of previous coding. Otherwise, each decision of the picture type, the quantization step size, and the picture block position always uses the coding parameters of the previous coding history and does not make a decision whether to use these parameters according to a frame type or a coding phase."

The examiner agrees, where Takishima (US pat no 6,856,650) always uses the coding parameters of the previous coding history and does not make a decision whether to use these parameters according to a coding phase of a macro block.

The examiner will withdraw the Takishima reference.

# [4] REASONS FOR ALLOWANCE

Claims 1, 3-6, 8-10 and 12-16 are allowable.

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With regards to claim 1, the examiner cannot find any applicable prior art providing teachings for the following limitation:

determining whether the acquired previously-executed image coding information is used is determined based on at least whether the image data is an I-type and whether a coding phase of a past macro block agrees with that of a coding phase of a current macro block in combination with the rest of the limitations of claim 1.

The closest prior art Takishima (US pat no 6,856,650) discloses

cycle estimation is an estimation of GOP cycle and/or I/P-picture cycles of previous coding in accordance with picture properties of the input video signal (see figure 7, 70); and phase estimation is an estimation of I-picture of previous coding in accordance with picture properties of the input video signal (see figure 7, 72).

With regards to claims 5, 6, 8-10, 12 and 14-16, see the rationale for claim 1.

## [5] RELEVANT ART

I. Kitamura (US pat no 7,126,993): Kitamura discloses extracting auxiliary packets in the H-blanking extraction apparatus 31 and the V-blanking extraction apparatus 34, the data is supplied to a history-information-separating apparatus 37, which extracts base-band video data from the transmitted data. Then video data is supplied to the history-information-separating apparatus 39. The history-information-separating apparatus 37 extracts

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history information of the first to third generations from the transmitted data and supplies the information to the encoding apparatus 39 and a history-encoding apparatus 38.

Kitamura does not disclose determining whether the acquired previously-executed image coding information is used is determined based on at least whether the image data is an I-type and whether a coding phase of a past macro block agrees with that of a coding phase of a current macro block.

[6] Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX LIEW whose telephone number is (571)272-8623 (FAX 571-273-8623) or cell (917)763-1192. The examiner can be reached anytime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vu Le can be reached on (571) 272-7332. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Vu Le/ Supervisory Patent Examiner, Art Unit 2624 /Alex Liew/ Alex Liew

Art Unit: 2624

Telephone: 571-272-8623

Date: